K000089

FEB 3 2000

14. Summary of Safety and Effectiveness Information:

510(k) SUMMARY

Submitter	Synthes (USA) 1690 Russell Road Paoli, PA 19301
Company Contact	Bonnie Smith (610) 647-9700
Name of the Device	Synthes 4.0 and 5.0 mm Locking Screws
Predicate Device	Synthes 3.9 and 4.9 mm Locking Bolts, commercially available as components of the following systems: Synthes Unreamed Tibial Nail Synthes Unreamed Humeral Nail Synthes Unreamed Femoral Nail Synthes Distal Femoral Nail (DFN), and Synthes Flexible Humeral Nail
Device Description	Synthes 4.0 and 5.0 mm Locking Screws are an additionally available option to the use of Synthes 3.9 and 4.9 mm Locking Bolts. Like 3.9 and 4.9 mm Locking Bolts, 4.0 and 5.0 mm Locking Screws are to be used in conjunction with Synthes Tibial, Humeral and Femoral Intramedullary Nails. The 4.0 and 5.0 mm Locking Screws have a trocar, self-tapping tip to facilitate insertion, a core diameter similar to the Locking Bolts, and are available in lengths ranging from 18 – 80 mm and 26 – 100 mm, respectively. Synthes 4.0 and 5.0 mm Locking Screws are manufactured from titanium alloy.
Intended Use	Synthes 4.0 and 5.0 mm Locking Screws are used for the static and dynamic interlocking of femoral, humeral and tibial nails.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

FEB 3 2000

Ms. Bonnie J. Smith, RAC
Senior Regulatory Affairs Associate
Synthes (USA)
1690 Russell Road
P.O. Box 1766
Paoli, Pennsylvania 19301

Re: K000089
Trade Name: Synthes 4.0 and 5.0mm Locking Screws
Regulatory Class: II
Product Code: HWC
Dated: January 11, 2000
Received: January 13, 2000

Dear Ms. Smith:

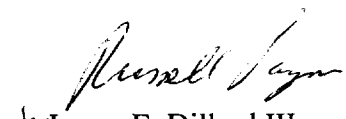
We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general control provisions of the Act. The general control provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,



James E. Dillard III
Acting Director
Division of General and
Restorative Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

K000089

2. Indications for Use

Premarket Notification [510(k)]

INTENDED USE STATEMENT

510(k) Number (if known): K000089

Device Name: Synthes (USA) 4.0 and 5.0 mm Locking Screws

Indications/Contraindications: Synthes 4.0 and 5.0 mm Locking Screws are used for the static and dynamic interlocking of femoral, humeral and tibial nails.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)
Division of General Restorative Devices
510(k) Number K000089

Prescription Use X OR Over-The-Counter Use_
(Per 21 CFR 801.109)